City of Corvallis

Salmon Response Plan

Prepared for:

City of Corvallis, Oregon
Public Works Department
PO Box 1083
Corvallis OR 97339-1083

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Prepared by:

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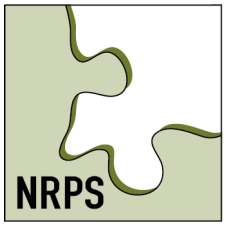

Appendix 14

Program Options Questionnaire
December 2002

City of Corvallis ESA Response Plan
Program Options Questionnaire

Please Complete and Return Before December 11, 2002

Please rank in descending order your opinion of what actions the City should prioritize in our plan for salmon habitat recovery. Potential options are listed in five topic areas: Citizen Behavior, Parks and Recreation, Planning and Land Use, Transportation, and Utilities. Most topic areas have more than one program category. Within each program category (e.g., Parks Operations and Maintenance), please indicate your priorities in the column labeled "Your Ranking." Use the number 1 for the most important action, 2 for the second most important action, etc. Potential options within each program category are presented in order of their effectiveness in improving water quality and salmon habitat according to research and analysis to date.

CITIZEN BEHAVIOR

CITIZEN BEHAVIOR & PRACTICES	Your Ranking (1=highest, 7=lowest)
1. Develop a media outreach program/campaign to educate public & businesses about what they can do to improve water quality (e.g., newsletters, speakers bureau, demonstrations at public events, school education programs, decals, stencils, etc.)	
2. Create incentives to change citizen behavior (e.g., appliance rebates, recycling programs, water conservation program)	
3. Develop & implement pollution prevention program that encourages citizen and business participation	
4. Encourage businesses to incorporate transportation demand management plans to reduce vehicle trips (van/car pooling, non-motorized transportation, bus pass purchases, etc.)	
5. Encourage appropriate landscaping activities (e.g., native species planting), and maintenance (e.g., reduction of chemical application, yard maintenance, etc.)	
6. Encourage "fish friendly", non-toxic use of household cleaners/chemicals	
7. Encourage appropriate disposal/recycling of vehicle maintenance liquids and equipment.	

PARKS AND RECREATION

PARKS AND RECREATION PLANNING/DESIGN		Your Ranking (1=highest, 5=lowest)
1.	Design parks with impervious surfaces outside stream corridors to lessen water quality impact	
2.	Incorporate "fish friendly" design and materials in park siting (e.g., tree cover, understory, native species, connectivity to maintain stream corridors, etc.)	
3.	Retro-fit and mitigate existing parks to improve "fish friendly" appearances and function	
4.	Incorporate park planning goals that reflect sensitivity to ESA, fish and wildlife needs, and water quality	
5.	Consider use of conservation easements on public and private land to preserve open space	
PARKS OPERATIONS & MAINTENANCE		**Your Ranking (1=highest, 5=lowest)**
1.	Prepare a Parks and Recreation Operations & Maintenance Manual that outlines activities to operate & maintain Corvallis parks, recreation and open spaces	
2.	Evaluate and propose mitigations at the existing equipment maintenance site (Avery Park) to reduce impact to water quality (e.g., containment of wash-down and spills, treatment and discharge to sewer system, etc.)	
3.	Manage storage and disposal of organic debris (do not accept 3rd party organic debris, manage composting, site organic debris pile elsewhere, etc.)	
4.	Improve management of "chip pile" areas to minimize organic leakage	
5.	Require 3rd party disposal of organic debris at the Process Recovery Center (PRC)	

PLANNING AND LAND USE

ZONING		**Your Ranking (1=highest, 5=lowest)**
1.	Expand open space in all zones in sensitive areas	
2.	Use zoning to reduce development density within stream corridors	
3.	Create new zones (e.g., open space zone, full protection zone)	
4.	Consider rezoning in specific stream reaches or stream corridors to protect sensitive areas	
5.	Utilize overlay zones to protect specific stream reaches or stream corridors to protect sensitive areas	
DEVELOPMENT STANDARDS		**Your Ranking (1=highest, 14=lowest)**
1.	Reduce impervious surfaces, especially in stream corridors	
2.	Incorporate "fish friendly" street design standards (e.g., reduce street widths, treat stormwater runoff, etc.)	
3.	Encourage landscaping with native species	
4.	Limit development in significant natural feature areas	
5.	Treat stormwater runoff to ensure no net gain in volume or pollutants	
6.	Provide incentives to remove development within 100-year floodplain for local streams (e.g., density transfers, easements)	
7.	Reduce new development within the 100-year flood plain for local streams	
8.	Require vegetative buffers along stream corridors	
9.	Consider easements to protect riparian function	
10.	Reconsider parking standards (eliminate minimum, lower maximum)	
11.	Allow density transfers to avoid sensitive areas	
12.	Develop design standards for different land uses and locations (i.e., sensitive areas would have more stringent design standards)	
13.	Evaluate roadway classifications to reduce conflicts between road locations and sensitive areas	
14.	Coordinate development plans with parks planning and implementation	

TRANSPORTATION

TRANSPORTATION PLANNING/DESIGN		Your Ranking (1=highest, 9=lowest)
1.	Incorporate transportation planning that is sensitive to stream corridors/crossings (e.g., minimize proximity to streets, pedestrian & bike paths, bike & car park areas, transit, telecommuting, etc.)	
2.	Incorporate transportation demand management (TDM) elements in planning (e.g., make TDM mandatory in land use plans, reduce miles traveled through urban design, encourage businesses-bus pass programs, provide bike storage, encourage car/van pooling, teleworking, etc.)	
3.	Implement approved projects in the Transportation System Plan (e.g., motorized and non-motorized)	
4.	Incorporate "fish friendly" design into Transportation Improvement Plan (TIP) (e.g., bridges over streams, culvert design, materials)	
5.	Prepare and implement water quality standards for all transportation projects	
6.	Coordinate transportation planning with land use planning to diminish water quality impact on streams	
7.	Engineer/redesign street widths and incorporate design streets to diminish water quality impact on streams through width reduction, use of materials (pervious, concrete, etc.), landscaping (trees, native species, bio-swales), one-sided street parking, one-sided sidewalks, etc.	
8.	Reduce on-street parking demand by basing on land use	
9.	Reduce off-street parking demand by increasing ratio of floor area to single parking space and encourage use of pervious materials to reduce stormwater runoff	
TRANSPORTATION OPERATIONS & MAINTENANCE		**Your Ranking (1=highest, 5=lowest)**
1.	Apply for an ESA Section 4(d) Rule Limit 10 Option (routine road maintenance activities) based on approved ODOT road maintenance manual based largely on strategies Corvallis is already implementing	
2.	Prepare an airport operation and maintenance manual to address grading/sweeping, replanting vegetation, chemical application, etc.	
3.	Develop an airport emergency operations and spill response plan	
4.	Review and assess equipment/vehicle maintenance activities at the Public Works Facility and recommend changes in operations and maintenance	
5.	Recycle debris at the Public Works Facility where possible (wood, oil, other debris)	

UTILITIES

CONSTRUCTION SITE MAINTENANCE	**Your Ranking (1=highest, 5=lowest)**
1. Require approved on-site disposal & recycling plans regarding disposal and recycling of debris and materials (e.g., concrete wash down, asphalt recycling and other construction materials)	
2. Require monitoring and reporting	
3. Require water dechlorination where sanitary sewer is unavailable	
4. Improve asphalt cleanup practices (e.g., eliminate use of diesel gas for wash down, contain asphalt clean-up)	
5. Require erosion control plans to prevent sediment discharge to streams (e.g., dewatering trenches and other construction site standards)	
CONSTRUCTION MATERIALS	**Your Ranking (1=highest)**
1. Promote the use of Leadership in Energy & Environmental Design (LEED) in private construction (Corvallis is currently evaluating LEED for its own construction practices)	
2. Encourage the use of "fish friendly" building materials by developers/contractors/suppliers (e.g., pervious parking materials, non-volatile paints, non-toxic treated wood, etc.)	
STORMWATER OPTIONS	**Your Ranking (1=highest, 4=lowest)**
1. Incorporate stormwater into the design manual for public transportation projects	
2. Develop an operation and maintenance (O & M) manual for stormwater management	
3. Incorporate water quality standards into the Land Development Code (LDC) for public and private projects	
4. Use the Stormwater Implementation Plan to improve water quality discharges to streams	
WATER SUPPLY	**Your Ranking (1=highest)**
1. Require installation of fish screens at water supply pump stations	
2. Initiate water conservation measures (e.g., step rates, appliance rebates, flow restrictors, toilet rebates, etc.)	

UTILITIES, CONT.

WASTEWATER TREATMENT		Your Ranking (1=highest, 10=lowest)
1.	Increase capacity of pump stations to reduce likelihood of overflows	
2.	Comply with temperature requirements as part of Total Maximum Daily Load (TMDL) Clean Water Act requirements (e.g., stormwater runoff, sewer discharge, etc.)	
3.	Conduct regular operation and maintenance activities on collection system, pump stations	
4.	Initiate inflow and infiltration (I&I) correction program	
5.	Implement spill prevention program	
6.	Initiate gray water separation to decrease flow to wastewater treatment plant	
7.	Initiate facility oils and grease program (FOG) (e.g., restaurants, manufacturers, food processing, etc.)	
8.	Continue & build upon "fish friendly" elements in utility project design (e.g., separating sewer from stormwater, chemical treatment applications, etc.)	
9.	Investigate use of lift stations instead of gravity systems near waterways	
10.	Disconnect roof drains to sewers where appropriate	

Other Comments:

Please complete and return to:

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For more information, call (541) 766-6731 ext. 5081 or e-mail salmon@ci.corvallis.or.us. Additional information is available at www.ci.corvallis.or.us. Go to *departments*, then *public works*.

Thank You!